

Docket No.: CLNK-1P14C1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of :  
Kristina M. JOHNSON and Gary D. SHARP :  
Serial No.: Continuation of 09/311,587 :  
Filed: December 15, 2000 :  
For: COLOR IMAGING SYSTEMS AND METHODS



INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

#3  
4/11/01  
M. Bridges

Sir:

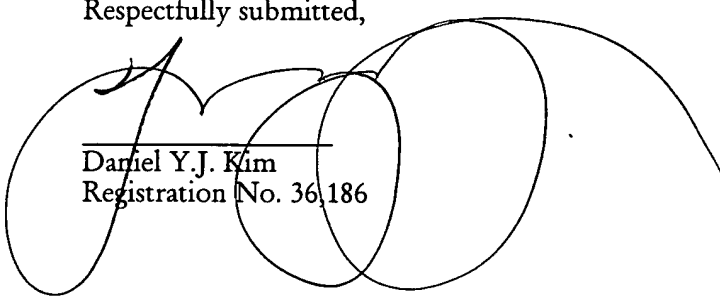
Pursuant to 37 C.F.R. 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. One copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the indicated date. Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that was cited or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. §120. 1138 OG 37, 38 (May 19, 1992).

- X 1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.
- 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.
- a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(1).
- b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(2).

- c. Attached is our check no. \_\_\_\_\_ in the amount of \$240.00 in payment of the fee under 37 C.F.R. 1.17(p). Please credit or debit Deposit Account No. 16-0607 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
- 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but on or before payment of the Issue Fee. It is hereby requested that the Information Disclosure Statement be considered. Attached is our check no. \_\_\_\_\_ in the amount of \$130.00 in payment of the fee under 37 C.F.R. 1.17(i)(1). Please credit or debit Deposit Account No. 16-0607 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
- a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(1).
- b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(2).
- X 4. The Examiner's attention is drawn to U.S. Patent No. 6,113,239 attached hereto. This is the only new reference that is being cited in the application.
- X 5. Copies of the references were cited by or submitted to the Office in parent application No. 09/311,587, filed May 14, 1999, which is relied upon for an earlier filing date under 35 U.S.C. §120. Thus, copies of these references are not attached. 37 C.F.R. §1.98(d).
- X 6. To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,

  
\_\_\_\_\_  
Daniel Y.J. Kim  
Registration No. 36,186

Correspondence Address:  
P.O. Box 221200  
Chantilly, VA 20153-1200  
Telephone: (703) 502-9440  
Date: December 15, 2000  
DYK/kam

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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<b>LIST OF PRIOR ART CITED BY APPLICANT</b>  <b>(PTO-1449)</b>				ATTY. DOCKET NO. <b>CLNK-1P14C1</b>		APPLN. SERIAL NO. <b>Continuation of 09/311,587</b>	
				APPLICANT(S) <b>Kristina M. Johnson and Gary D. Sharp</b>			
				FILING DATE <b>December 15, 2000</b>		GROUP <b>2711</b>	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	5,528,393	June 1996	Sharp et al.	359	053		
	5,469,279	Nov. 1995	Sharp et al.	359	053		
	5,122,887	June 1992	Mathewson	349	097		
	4,575,193	March 1986	Greivenkamp, Jr.	350	401		
	2,493,200	Jan. 3, 1950	Land	88	112		
	4,367,924	Jan. 11, 1983	Clark et al.	350	334		
	4,582,396	Apr. 15, 1986	Bos et al.	350	347		
	4,232,948	Nov. 11, 1980	Shanks	350	347		
	4,416,514	Nov. 22, 1983	Plummer	350	335		
	4,003,081	Jan. 11, 1977	Hilsum et al.	358	64		
	4,019,808	Apr. 26, 1977	Scheffer	350	160 LC		
	4,758,818	July 19, 1988	Vatne	340	701		
	5,347,378	Sept. 13, 1994	Handschy et al.	359	53		
	5,243,455	Sept. 7, 1993	Johnson et al.	359	93		
	5,050,965	Sept. 24, 1991	Conner et al.	359	53		
	5,469,279	Nov. 21, 1995	Sharp et al.	359	53	10/27/92	
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
	4,029,838	Mar. 1991	DE	349	097		
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
	Scheffer, T.J., "New multicolor liquid crystal displays that use a twisted nematic electro-optical cell," J., Appl. Phys. (1973) 44(11):4799-4803						
	Carlsen, W.J. and Buhrer, C.F., "Flat Passband Birefringent Wavelength-Division Multiplexers," Electronics Letters (1987) 23(3):106-107						
	Wright, H., et al., "Active filters enable color imaging," Laser Focus World (May 1996) 85-90						
	Cambridge Research & Instrumentation, Inc., "Liquid Crystal Tunable Filter," Cambridge, MA, 2 pages						
	Displaytech, Inc. (January, 1996), "Switchable Color Filter", Boulder, CO, 4 pages						
	Title, A.M. and Rosenberg, W.J., "Tunable birefringent filters," Opt. Eng., (1981) 20(6):815-823						
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EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	5,686,931	Nov. 11, 1997	Fünfschilling et al.	345	88		
	4,448,823	May 15, 1984	Clifford	428	1		
	4,025,164	May 24, 1977	Doriguzzi et al	350	160 LC		
	5,126,864	June 30, 1977	Akiyama et al.	350	337		
	4,497,543	Feb. 5, 1985	Aoki et al.	350	337		
	4,770,500	Sept. 13, 1988	Kalmanash et al.	350	347 E		
	4,834,508	May 30, 1989	Ferguson	350	339 F		
	4,867,536	Sept. 19, 1989	Pidsosny et al.	350	337		
	5,033,825	July 23, 1991	Ishikawa et al.	350	339		
	4,652,087	Mar. 24, 1987	Bos et al.	350	332		
	4,635,051	Jan. 6, 1987	Bos et al.	340	757		
	4,759,612	July 26, 1988	Nakatsuka et al.	350	337		
	4,770,525	Sept. 13, 1988	Umeda et al.	353	122		
	4,796,978	Jan. 10, 1989	Tanaka et al.	350	337		
	4,917,464	Apr. 17, 1990	Conner	350	335		
	4,917,465	Apr. 17, 1990	Conner et al.	350	335		
	4,966,441	Oct. 30, 1990	Conner	350	335		
<b>FOREIGN PATENT DOCUMENTS</b>							
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						Yes	No
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
	Solc, Ivan, "Birefringent Chain Filters, "J. Opt. Soc. Am. (1965) 55(6):621-625						
	Wu, Shin-Tson, "Birefringence dispersions of liquid crystals, "Physical Review A, (1986) 33(2):1270-1274						
	Harris, S.E., et al., "Optical Network Synthesis Using Birefringent Crystals, I. Synthesis of Lossless Networks of Equal-Length Crystal, "J. Opt. Soc. America (1964) 54(10):1267-1279						
	Amman, E.O., "Optical Network Synthesis Using Birefringent Crystals, III., Some General Properties of Lossless Birefringent Networks, "J. Opt. Soc America (1966) 56(7):943-951						
	Amman, E.O. and Yarborough, J.M., "Optical Network Synthesis Using Birefringent Crystals V. Synthesis of Lossless Networks Containing Equal-Length Crystals and Compensators, "J. Opt. Soc America (1966) 56(12): 1746-1754						
	Sharp, G.D., et al., "P-60: Color Switching Using Ferroelectric Liquid Crystals, "Society for Information Display, International Symposium, Digest of Technical Papers, Vo., XXIV, Seattle, Washington, May 18-20, 1993.						
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	5,032,007	July 16, 1991	Silverstein, et al.	350	335		
	5,179,459	Jan. 12, 1993	Plesinger	359	74		
	5,237,435	Aug. 17, 1993	Kurematsu et al.	359	41		
	5,299,039	Mar. 29, 1994	Bohannon	359	53		
	5,422,756	June 6, 1995	Weber	359	487		
	5,574,580	Nov. 12, 1996	Ansley	359	41		
	5,585,950	Dec. 17, 1996	Nishino et al.	349	118		
	5,608,551	Mar. 4, 1997	Biles et al.	359	95		
	2,638,816	May 19, 1953	Stolzer	88	61		
	5,658,490	Aug. 19, 1997	Sharp et al.	252	299.01		
	5,400,095	March 21, 1995	Minich et al.	353			
	5,353,075	Oct. 4, 1994	Connor et al.	353			
	5,337,103	Aug. 9, 1994	Gulick	353			
	5,132,826	July 21, 1992	Johnson et al.	359			
	5,276,436	Jan. 4, 1994	Shaw et al.	340			
	4,995,702	Feb. 26, 1991	Aruga	350			
<b>FOREIGN PATENT DOCUMENTS</b>							
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						Yes	No
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
	Kondo, et al., "Ferroelectric Liquid Crystal Materials Applied to Guest-Host Type Displays," Ferroelectrics (1988) 85:361-373						
	Billings, BH., "A Tunable Narrow-Band Optical Filter," J., Opt. Soc. America (1947) 37:738-746						
	Buhner, Carl F., "Synthesis and tuning of high-order birefringent filters," Applied Optics (20 April 1994) 33(12): 2249-2254.						
	Y. Wang; "Surface Plasmon Tunable Color Filter and Display Device;" Society for Information Display International Symposium Digest of Technical Papers; vol. 28, pp. 63-66, May 1997						
	F.H. Yu and H.S. Kwok; "A New Driving Scheme for Reflective Bistable Cholesteric LCDs;" 1997 Society for Information Display International Symposium Digest of Technical Papers; p. 659, May, 1997						
	Y. Nakai; "A Reflective Tri-Layer Guest-Host Color TFT-LCD;" 1997 Society for Information Display International Symposium Digest of Technical Papers; p. 83, May, 1997.						
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EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	5,231,432	July 27, 1993	Glenn	353			
	5,355,188	Oct. 11, 1994	Biles et al.	353			
	5,321,450	June 14, 1994	Shapiro et al.	353			
	4,416,514	Nov. 22, 1983	Plummer	350			
	4,786,964	Nov. 22, 1988	Plummer	358			
	4,808,501	Feb. 28, 1989	Chiulli	430			
	5,381,253	Jan. 10, 1995	Sharp et al.	359			
	5,510,861	Apr. 23, 1996	Minich	353			
	5,124,818	June 23, 1992	Conner	359	53		
	4,786,146	Nov. 22, 1988	Ledebuhr	350	33IR		
	5,500,523	Mar. 19, 1996	Hamanaka	250	216		
	5,337,174	Aug. 9, 1994	Wada et al.	359	73		
	5,739,881	Apr. 14, 1998	Xu et al.	349	118		
	5,777,709	July 7, 1998	Xu et al.	349	120		
	5,220,447	June 15, 1993	Yokokura et al.	359	93		
	5,369,513	Nov. 29, 1994	Akatsuka et al.	359	73		
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	WO95/26110	09SE95	PCT				
	0121379	25MAY88	Japan				
	4022920	27JAN92	Japan				
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
	Bernard M. Schiffman, et al., "Birefringent Filter for Millimeter Waves," IEEE Transactions on Microwave Theory and Techniques," Vol. MIT-16, No. 6, June 1968.						
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	4,668,086	May 26, 1987	Redner	356	33		
	5,774,264	June 30, 1998	Konno et al.	359	497		
	5,249,071	Sep. 28, 1993	Yoshimizu et al.	359	63		
	5,534,949	July 9, 1996	Baron	348	742		
	5,619,355	April 8, 1997	Sharp et al.	349	78		
	5,295,009	Mar. 15, 1994	Barnik et al.	359	65		
	5,235,443	Aug. 10, 1993	Barnik et al.	359	37		
	5,689,317	Nov. 18, 1997	Miller	349	97		
	3,967,881	July 16, 1996	Moriyama	350	150		
	5,268,782	Dec. 7, 1993	Wenz et al.	359	81		
	5,559,634	Sep. 24, 1996	Weber	359	638		
	5,833,360	Nov. 10, 1998	Knox	362	293		
	4,566,761	Jan. 28, 1986	Carlsen et al.	350	401	09/13/84	
	4,685,773	Aug. 11, 1987	Carlsen et al.	350	401	10/28/85	
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